NATURAL RESOURCES CONSERVATION SERVICE
Wyoming
CONSTRUCTION SPECIFICATIONS
for
DIVERSION

_____ (Owner/Operator)

_____ (Project Title)

GENERAL

Diversions shall be installed in accordance with a plan approved by the responsible technician. Details of construction shown in the plan but not included herein shall be considered as a part of this specification.

Construction operations shall be carried out in a manner to ensure that erosion and air and water pollution are minimized and are less than legal limits.

Construction activities shall be in accordance with U. S. Department of Labor, Occupations Safety and Health Administration requirements.

EMBANKMENTS

All dead furrows, ditches or gullies to be crossed shall be filled before construction begins or as a part of the construction.

The foundation area for all diversion embankments shall be cleared of all trees, weeds, sod, loose rock or other materials not suitable for the subgrade.

Moisture content and methods of placement shall be such that a firm, stable embankment will result.

Compaction shall meet the requirements described below for the designated method:

Method 1. Sheepsfoot Roller – The maximum thickness shall be 8 inches before compaction. The roller shall have staggered, uniformly spaced tamping feet and be equipped with suitable cleaners. The weight of the roller shall be not less than 2,500 pounds per foot of width. The maximum speed of the compaction equipment shall be 3 miles per hour.

The entire surface of each layer placed shall receive six passes of the equipment to attain the necessary compaction. Adjustment in the number of passes may be necessary during construction.

Method 2. Pneumatic Tired Equipment – The maximum layer thickness before compaction shall be 6 inches. A loaded scraper or wheel tractor may be considered a pneumatic roller. The wheels of this equipment must pass over 90 percent of the surface of each lift before a new lift is placed.

Method 3. Track Laying Equipment (Bulldozer) – The maximum layer thickness before compaction shall be 4 inches. The tracks of the equipment must pass over 90 percent of the surface of each lift before a new lift is placed.

Compliance with compaction requirements will be determined by observation of performance for Methods 1, 2, and 3. Fill not meeting the specified requirements shall be reworked and replaced with acceptable fill.

FINISH

The diversion embankment and channel shall be constructed to the designated line, grade, and cross-section.

The top of the constructed ridge shall not be lower at any point than the design elevation plus any specified over-fill for settlement.

The finish section shall be smooth so that the embankment can be seeded or farmed as applicable.

SEEDING

When the diversion is not to be farmed, seed the top, slopes, and channel of the diversion at the time specified, and at the rate recommended for the site as noted in Additional Specifications.

ADDITIONAL SPECIFICATIONS